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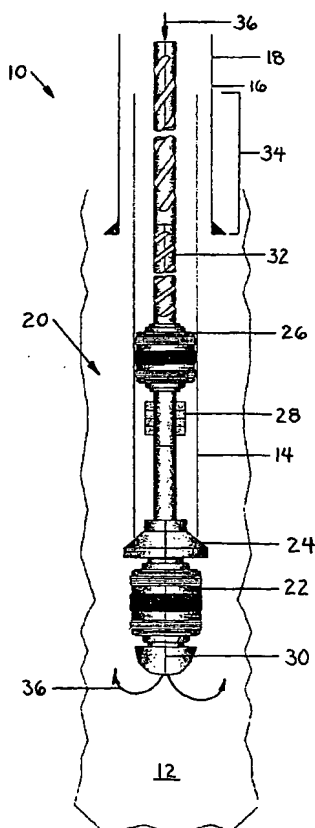
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(54) Title: **BOTTOM PLUG FOR FORMING A MONO DIAMETER WELLBORE CASING**



(57) Abstract: A bottom plug and a method of using a bottom plug for forming a mono diameter wellbore casing (18) is provided that includes an expandable packer (22) initially attached below an expansion device (24). A packer setting mechanism (40) is coupled between the expansion device (24) and the packer (22) for expanding a packer (22) and sealingly setting it in an expanded portion (38) of the wellbore casing (14). A release mechanism (52) is coupled between the expansion device (24) and the packer (22) for releasing packer (22) from the expansion device (24). Fluid (36) is pumped into the casing (14) between the cone (24) and the packer (22) to force the expansion device (24) into and through an unexpanded portion of casing (14), thereby expanding the casing (14).



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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/29460

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : E21B 43/10, 23/00  
US CL : 166/380, 387, 206, 207

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
U.S. : 166/380, 387, 206, 207, 382, 120, 208, 212, 217

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
EAST: packer, release, disconnect, expandable, expansion

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 20010047870 A1 (COOK et al) 06 December 2001 (06.12.2001), Figures 10b-10f; pages 16-19; page 3, paragraph 47.	1-25
Y	US 6,167,970 B1 (STOUT et al) 02 January 2001 (02.01.2001), column 10, line 57 through column 11, line 13; column 10, lines 10-43.	1-11,18-21
Y,P	US 6,607,220 B2 (SIVLEY, IV) 19 August 2003 (19.08.2003), column 5, lines 26-33.	16,17,25
Y	US 5,667,011 A (GILL et al) 16 September 1997 (16.09.1997), column 3, line 64 through column 4, line 20.	12-15,22-24
A	US 5,697,449 A (HENNIG et al) 16 December 1997 (16.12.1997).	

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

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"O" document referring to an oral disclosure, use, exhibition or other means	
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